

METHOD AND APPARATUS FOR IMAGE FRAME SYNCHRONIZATION

Abstract

A method and apparatus for converting a source frame signal received at a first frame rate to a destination frame signal output at a second frame rate. By adjusting the number of pixel data in the destination frame signal, the second frame rate is made to be the same as the first frame rate. Adjusting the amount of non-visible porch signals for at least one horizontal line of the destination frame signal prevents overflow and underflow conditions. The number of non-visible porch signals is increased to prevent underflow or decreased to prevent overflow. The number of non-visible porch signals in the last horizontal line is adjusted to comply with some display devices having a maximum time constraint from a last horizontal sync signal to a vertical sync signal in the destination frame signal.